



Integrated Telephone System

Model No. KX-TS27-W

Pulse-or-tone dialing capability

# Operating Instructions



2 LINE



## **Before Initial Use**

Please read IMPORTANT SAFETY INSTRUCTIONS on pages 35–36 before use. Read and understand all instructions.

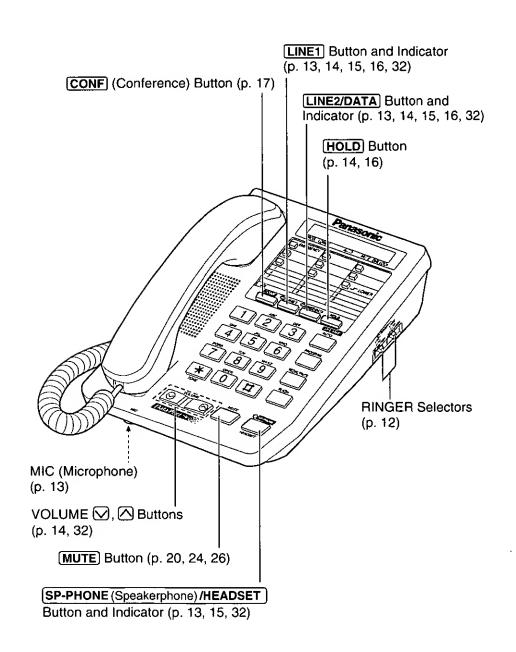
Thank you for purchasing your new Panasonic integrated telephone.

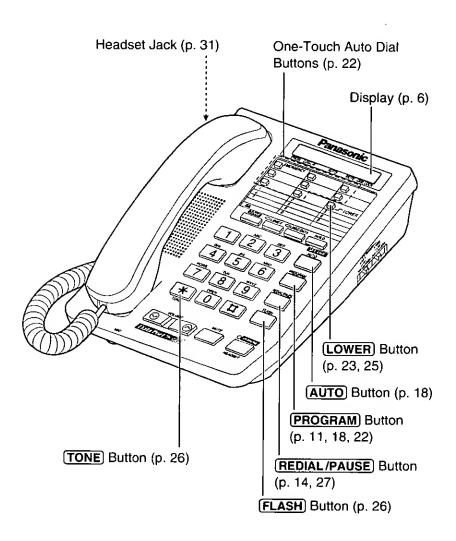
Attach your purchase receipt here. For your future reference Date of purchase Serial No. (found on the bottom of the unit) Name and address of dealer Accessories (included) For extra orders, call 1-800-332-5368. ☐ Handset (p. 8) ☐ Handset Cord (p. 8) Order No. PQJXF0102Z Order No. PQJA212M one one ☐ 4-Wire Telephone Line Cord □ 2-Wire Telephone Line Cord with Green Plugs (p. 8, 9, 10) with Transparent Plugs (p. 9, 10) one one □ Wall Mounting Adaptor (p. 30) ☐ AA (R6, UM-3) Batteries (p. 7) Order No. PQKL24Y81 one three

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# **Location of Controls**





# Display



(This display shows all of the possible configurations.)

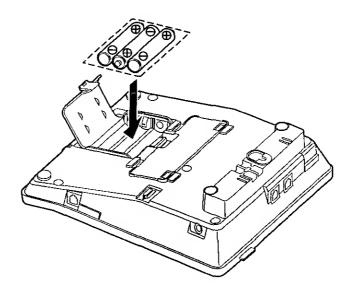
- During a conversation, the call duration is displayed. (Example: 15 minutes, 30 seconds)
  - The unit is in the programming mode (p. 11, 18, 22).
  - The AUTO button was pressed while dialing or storing phone numbers for the Speed Dialer (p. 18, 21).
  - The LOWER button was pressed (p. 23, 25).
  - The MUTE button was pressed during a conversation (p. 26).
  - **-O** The dial lock mode is set. To cancel the mode, see page 29.
  - The FLASH button was pressed while storing phone numbers.
  - The PAUSE button was pressed while dialing or storing phone numbers.
  - You pressed \* while dialing or storing phone numbers in the TONE mode.
  - You pressed # while dialing or storing phone numbers in the TONE mode.
  - While storing a phone number in an UPPER memory location for the One-Touch Dialer, " " will appear when you press a one-touch auto dial button (p. 22).
  - While storing a phone number in a LOWER memory location for the One-Touch Dialer, "a" will appear when you press a one-touch auto dial button (p. 23).
- The MUTE button was pressed as a secret button while storing phone numbers (p. 20, 24).
  - While programming function items, such as the dialing mode, "" will flash as a cursor.



### **Battery Installation**

The three batteries serve as the power source for the line indicators.

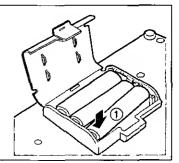
Open the battery cover, then install the three AA (R6, UM-3) batteries as indicated, matching the correct polarity.



- Please refer to page 37 for correct battery usage.
- Battery life may depend on usage conditions and ambient temperature.

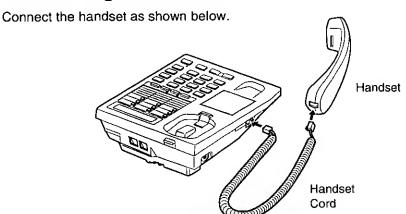
### **Battery Replacement:**

- If the line indicators do not work properly, install new batteries.
- Disconnect the telephone line cord(s) before opening the battery cover.
- To remove the batteries, press down battery 1 as shown by the arrow.





### Connecting the Handset

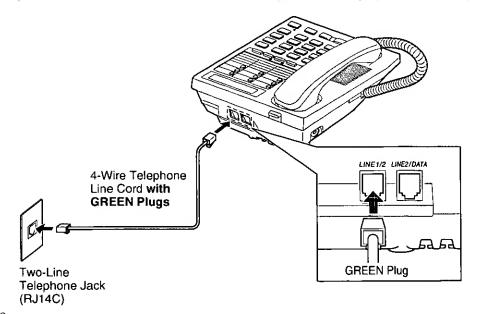


Use only a Panasonic Handset for the KX-TS27-W.

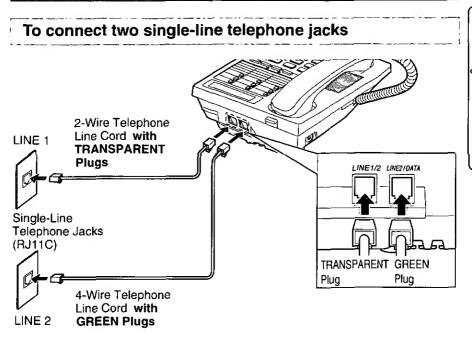
## Connecting the Telephone Line Cord

Connect the telephone line cord(s) to the unit as follows.

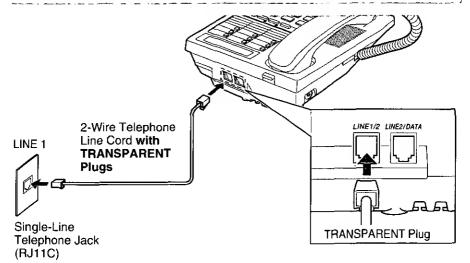
### To connect a two-line telephone jack







### If you use the unit only as a single-line telephone

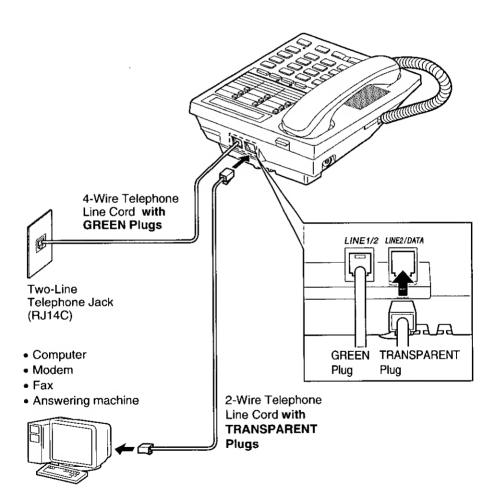


• For this connection, you can only use LINE1.



# **Connecting a Communication Device**

After connecting the telephone line cord to a two-line telephone jack, you can connect a communication device (computer, modem, fax, answering machine, etc.) through this unit using the LINE2/DATA jack (—Data Port).



If the LINE2/DATA indicator lights red, the communication device is in use.
 Use LINE1 to make or answer other calls. Otherwise the communication device may not operate properly.



# **Selecting the Dialing Mode**

You can select the dialing mode by programming. If you have touch tone service, set to TONE. If rotary or pulse service is used, set to PULSE. Your phone comes from the factory set to TONE.

- Press PROGRAM.
  - "→> " is displayed.

->

Press 3.

3-0″

To select PULSE, press ①.
OR
To select TONE, press ①.

Ex. PULSE is selected.

5 Press PROGRAM

• A beep sounds on the handset.

Line Buttons

6 When finished, replace the handset.

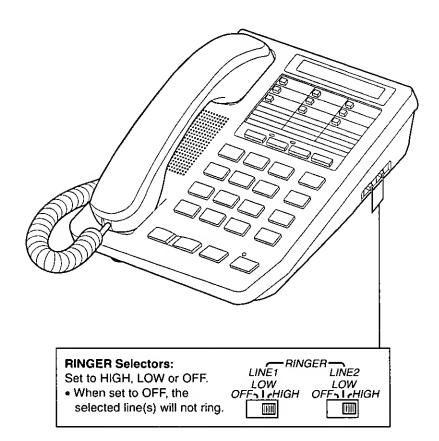


- To cancel during programming, replace the handset. Start again from step 1.
- If 4 beeps sound during programming, a wrong key was pressed.
   Replace the handset. Start again from step 1.



# **Setting the Ringer Volume**

You can set the ringer volume of each line.



# **Making Calls**



### Using the handset

Press (LINE1) or (LINE2/DATA) to select a telephone line.

2 Lift the nanusco.

• The line indicator lights red.

3 Dial a phone number.

The dialed number is displayed.

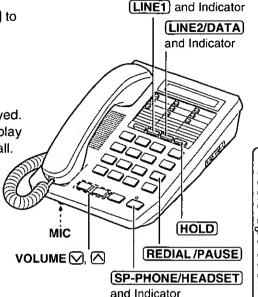
 After a few seconds, the display will show the length of the call.

 If you misdial, hang up and start again from step 1.

To hang up, place the handset on the cradle.

• The indicator light goes out.

• The display will return to the stand-by mode.



### Using the speakerphone

Press (LINE1) or (LINE2/DATA) to select a telephone line.

Press (SP-PHONE/HEADSET).

- The line indicator lights red and the SP-PHONE/HEADSET indicator lights.
- Dial a phone number.
  - The dialed number is displayed.
  - After a few seconds, the display will show the length of the call.
  - If you misdial, press (SP-PHONE/HEADSET) and start again from step 1.
- When the other party answers, talk into the MIC (microphone).
- To hang up, press (SP-PHONE/HEADSET).
  - The indicator lights go out.
  - The display will return to the stand-by mode.
  - Be sure that the CONF (Conference) button is released.
  - If the LINE2/DATA jack is connected to a communication device (p. 10) and the LINE2/DATA indicator lights red, the communication device is in use. Use LINE1 to make or answer other calls. Otherwise the communication device may not operate properly.

### Making Calls

### **During speakerphone operation:**

- For best speakerphone performance, talk alternately with the caller in a quiet room.
- If the caller complains that your voice is hard to hear, press
   VOLUME (✓) to decrease the speaker volume.
- You can switch to the handset by lifting it up. To switch back to the speakerphone, press (SP-PHONE/HEADSET).

# To adjust the handset volume (5 levels) or the speaker volume (9 levels) while talking

To increase, press **VOLUME** .

To decrease, press **VOLUME ☑**.

- " ற " shows the volume level.
- The display will return to the dialed number, then the length of the call.
- After hanging up, the handset volume will return to the middle level.

Ex.	Handset volume	level: 4
		0000
	•	

Ex. Speaker volume level: 4

0000----

### To redial the last number dialed

Press <u>LINE1</u> or <u>LINE2/DATA</u> ⇒ lift the handset or press <u>SP-PHONE/HEADSET</u> ⇒ press <u>REDIAL/PAUSE</u>.

### To put a call on hold

Press (HOLD).

- The line indicator lights green.
- If you are using the handset, you may place it on the cradle.

### To release the hold

Press the line button ⇒ lift the handset or press (SP-PHONE/HEADSET).

• If another phone is connected on the same line, you can also release the hold by lifting its handset.

### What the line indicator means

Off	The line is free.
On (red)	You are using the line or someone else is using the line on a parallel connected telephone.
On (green)	A call is on hold.
Flashing (red)	A call is being received.

# **Answering Calls**

While a call is being received, the unit rings and the called line indicator flashes red.

### Using the handset

- 1 Press the line button whose indicator is flashing.
- 2 Lift the handset.
  - The line indicator lights red.
- **Q** To hang up, place the handset on the cradle.
  - The indicator light goes out.



- When the RINGER selector(s) is/are set to OFF (p. 12), the selected line(s) will not ring.
- Be sure that the **CONF** (Conference) button is released.

When the optional headset is connected to the unit (p. 31), be sure to use the headset to talk with the caller. If you want to have a normal phone conversation, disconnect the headset before making or answering a call.

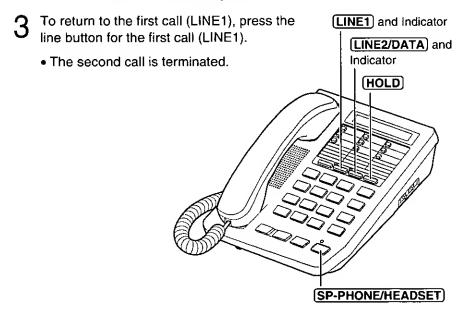
# **Using the Other Line During a Conversation**

During a conversation, if the other line indicator flashes red, an incoming call is being received on the line. You can answer the second call while holding the first call. You can also make a call without terminating the first call.

### Ex: If you are using LINE1

- Press (HOLD) to put the first call (LINE1) on hold.
  - The LINE1 indicator lights green.
  - If you are using the handset, place it on the cradle.
- Press the other line button (LINE2/DATA) and either lift the handset or press

  SP-PHONE/HEADSET to make or answer a second call.
  - The LINE2/DATA indicator lights red.



 To hold the second call in step 3, press (HOLD) before pressing the line button for the first call, and either lift the handset or press (SP-PHONE/HEADSET).

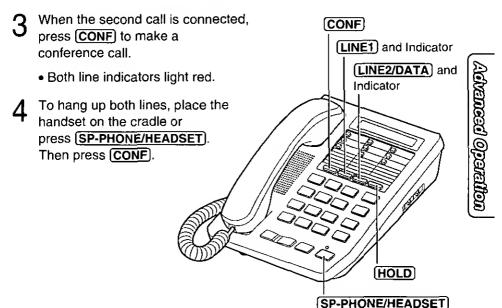
### Conference Call

While having a conversation on one line, you can make or answer a second call on the other line and then combine both calls together to make a conference call.

### Ex: If you are using LINE1

- Press HOLD to put the first call (LINE1) on hold.
  - The LINE1 indicator lights green.
  - If you are using the handset, place it on the cradle.
- Press the other line button (LINE2/DATA) and either lift the handset or press

  SP-PHONE/HEADSET to make or answer a second call.
  - The LINE2/DATA indicator lights red.



• To hang up only one line in step 4, press the line button you want to continue talking with then press **CONF**.

# Speed Dialer

## Storing Phone Numbers in Memory

You can store up to 10 phone numbers in the memory stations. The dialing buttons (① to ②) function as memory station numbers. Do not press any memory stations before storing to prevent misoperation.

◆ Press a line button and lift the handset.

Press (PROGRAM).

• " →> " is displayed.

Press AUTO.

• "→•" is displayed.

Press a memory station number (0) to (9).

Enter a phone number up to 21 digits.

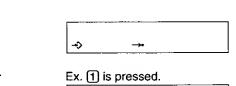
• The entered number is displayed.

Press PROGRAM.

 A beep sounds on the handset.

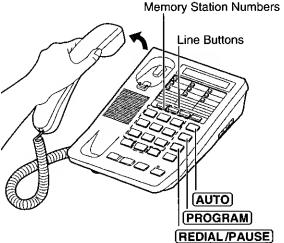
When finished, replace the handset.

 To store other numbers, repeat steps 1 through 7.



Ex. [1] is pressed.

*1- 123*4567



- If a pause is required for dialing, (REDIAL/PAUSE) can be stored in a phone number counting as one digit (p. 27).
- To cancel during programming, replace the handset. Start again from step 1.
- If 4 beeps sound during programming, a wrong key was pressed.
   Replace the handset. Start again from step 1.
- You can keep the stored numbers confidential. See page 20.

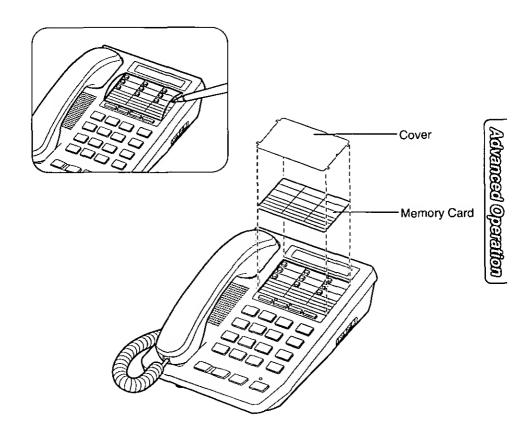


### To erase a stored number

- 1. Press a line button and lift the handset.
- 2. Press (PROGRAM).
- 3. Press (AUTO).
- 4. Press the memory station number (0 to 9) for the phone number to be erased.
- 5. Press PROGRAM, then replace the handset.

### **Memory card**

Remove the memory card and use it as a name or phone number index for the stored numbers.



### To store confidential numbers (Secret button feature)

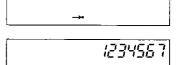
Confidential numbers stored in a memory station using this feature will not be displayed when dialing. The <u>MUTE</u> button functions as a secret button when storing. Press <u>MUTE</u> before and after the number(s) to be concealed. Pressing <u>MUTE</u> once counts as one digit.

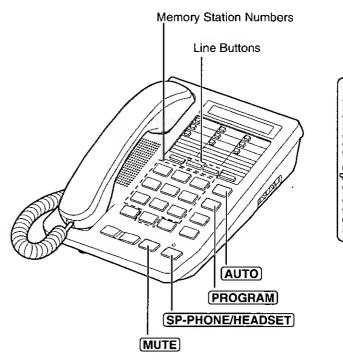
Example: To conceal all digits of the phone number "0987654"

1	Press a line button and lift the handset.		
2	Press (PROGRAM).	->	
3	Press AUTO.	->	->=
4	Press a memory station number (0 to 9).		is pressed.
5	Press MUTE.	→>	2-5
6	Press "0987654".	→>	2-00987654
7	Press (MUTE).	->	2-009876543
8	Press (PROGRAM).	<u></u>	
9	When finished, replace the handset.		
W	hen dialing, the display will show "	7"	<b>.</b>

# **Dialing a Stored Number**

- Press a line button to select a telephone line.
- 2 Lift the handset or press SP-PHONE/HEADSET.
- 3 Press AUTO.
- Press the memory station number (0 to 9).
  - The stored number is displayed and dialed.





### **One-Touch Dialer**

You can store up to 16 phone numbers in the one-touch auto dial buttons (8 numbers in UPPER memory locations, 8 numbers in LOWER memory locations).

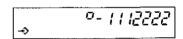
# **Storing Phone Numbers in Memory**

Do not press any one-touch auto dial buttons before storing to prevent misoperation.

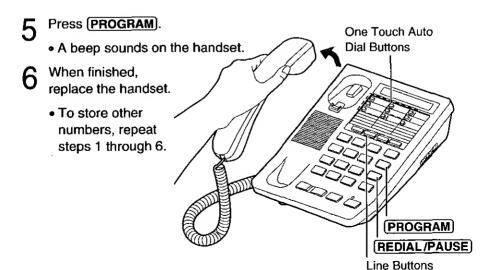
### To store in an UPPER memory location

It is recommended that you program an emergency number in the top left one-touch auto dial button (EMERGENCY button).

- ◆ Press a line button and lift the handset.
- ? Press PROGRAM.
  - " →> " is displayed.
- Press one of the one-touch auto dial buttons.
  - " □- " is displayed.
- ✓ Enter a phone number up to 21 digits.
  - The entered number is displayed.



 $\sigma_{-}$ 



### To store in a LOWER memory location

- Press a line button and lift the handset.
- Press PROGRAM.

• " →> " is displayed.

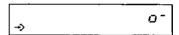
**→**>

Press **LOWER** to select a lower memory location.



" — " is displayed.

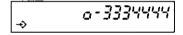
Press one of the one-touch auto dial buttons.



• " o = " is displayed.

5 Enter a phone number up to 21 digits.





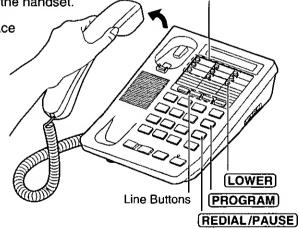
One Touch Auto Dial Buttons

6 Press PROGRAM.

A beep sounds on the handset.

When finished, replace the handset.

 To store other numbers, repeat steps 1 through 7.



- If a pause is required for dialing, REDIAL/PAUSE can be stored in a phone number counting as one digit (p. 27).
- To cancel during programming, replace the handset. Start again from step 1.
- If 4 beeps sound during programming, a wrong key was pressed.
   Replace the handset. Start again from step 1.
- You can keep the stored numbers confidential. See page 24.

### To erase a stored number

- 1. Press a line button and lift the handset.
- 2. Press PROGRAM).
- 3. If the phone number is in an UPPER memory location, press the one-touch auto dial button for the phone number to be erased. OR

If the phone number is in a LOWER memory location, press (LOWER), then press the one-touch auto dial button for the phone number to be erased.

4. Press (PROGRAM), then replace the handset.

When dialing, the display will show "[---

### Memory card

Use the memory card as a name or phone number index for the stored numbers (p. 19).

### To store confidential numbers (Secret button feature)

Confidential numbers stored in a one-touch auto dial button using this feature will not be displayed when dialing. The MUTE button functions as a secret button when storing. Press MUTE before and after the number(s) to be concealed. Pressing (MUTE) once counts as one digit.

Example: To conceal all digits of the phone number "4445555" in an **UPPER** memory location

Press a line button and lift the handset	t.
Press PROGRAM.	<b>→</b>
Press one of the one-touch auto dial buttons.	<i>O</i> ₋
4 Press MUTE.	-> °-[
<b>5</b> Press "4445555".	<u> </u>
6 Press MUTE.	<i>0-[५५५</i> 5555]
7 Press PROGRAM.	
When finished, replace the handset.	

## **Dialing a Stored Number**

### With an UPPER memory location:

- Press a line button to select a telephone line.
- 2 Lift the handset or press SP-PHONE/HEADSET.
- 3 Press the desired one-touch auto dial button.
  - The stored number is displayed and dialed.

1112222

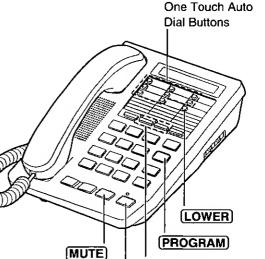
7774444

### OR

### With a LOWER memory location:

- Press a line button to select a telephone line.
- 2 Lift the handset or press SP-PHONE/HEADSET.
- 3 Press LOWER
- Press the desired one-touch auto dial button.

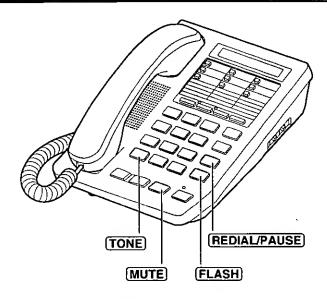
 The stored number is displayed and dialed.



Line Buttons

SP-PHONE/HEADSET

# Special Features



## For Call Waiting Service Users

Press (FLASH) if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press FLASH again.

# Temporary Tone Dialing

(For Rotary or Pulse Service Users)

Press **TONE** before entering access numbers which require tone dialing.

 The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the mode will return to pulse.

# **Muting Your Conversation**

Press MUTE while talking. " ⋈ " is displayed.

- The other party cannot hear your voice but you can hear theirs.
- To resume the conversation, press MUTE again.



### **How to Use the PAUSE Button**

(For Analog PBX Line/Long Distance Service Users)

We recommend you press **REDIAL/PAUSE** if a pause is required for dialing with a PBX or to access a long distance service.

Ex. Line access number 9 (PBX)

9 → REDIAL/PAUSE → Phone number

- Pressing (REDIAL/PAUSE) once creates a 3.5 second pause.
   This prevents misdialing when you redial or dial a stored number.
- Pressing (REDIAL/PAUSE) more than once increases the length of the pause between numbers.
- When you store phone numbers in memory or press REDIAL/PAUSE to redial, if (REDIAL/PAUSE) is stored anywhere after the first 5 digits, dialing will stop where (REDIAL/PAUSE) was entered. Press (REDIAL/PAUSE) to continue dialing.
  - Ex. To access a voice mail service: "1234567 [REDIAL/PAUSE] 890" is stored in an UPPER memory location in a one-touch auto dial button (for the One-Touch Dialer). "890" is the access number.

Press a line button ⇒ lift the handset or press

SP-PHONE/HEADSET 

→ press the one-touch auto dial button ("1234567" is dialed) 

→ follow the pre-recorded instructions 

→

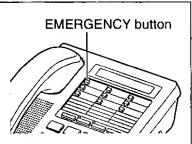
⇒ press REDIAL/PAUSE ("890" is dialed).



### **Dial Lock**

You can prohibit anyone from making a call to any number except the one you programmed in the UPPER memory location at the top left one-touch auto dial button (EMERGENCY button). Once you locked the dialing buttons, even emergency numbers, such as 911, cannot be dialed. Only incoming calls are accepted until the dial lock is canceled.

Before using this feature, we recommend storing an emergency number in the UPPER memory location in the top left one-touch auto dial button (EMERGENCY button) (p. 22). Even if the dialing buttons are locked, the number stored in this button can be dialed.



Note: If you choose not to program an emergency number, but plan to use dial lock, any number programmed into the UPPER memory location in the top left one-touch auto dial button can be accessed.

### To set the dial lock

- Program the emergency number you want to have accessible. (See above.) Mark the button accordingly.
- 2. Press a line button and lift the handset.
- Press PROGRAM
- 4. Press (5), (3) and then (9).
- 5. Press (PROGRAM).
  - " →O" is displayed.
- 6. When finished, replace the handset.

<b>→&gt;</b>		
<b>→&gt;</b>	5-39	
		٠

In the stand-by mode, the display is blank.

"-O" will be displayed when you press the line button and lift the handset or press (SP-PHONE/HEADSET).

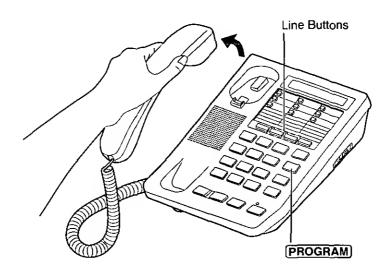
You can use the following features while the dialing buttons are locked.

- Dialing a number you programmed in the UPPER memory location at the top left one-touch auto dial button (p. 28)
- Selecting the dialing mode (p. 11)
- Setting the ringer volume (p. 12)
- Adjusting the handset, speaker and headset volumes (p. 14, 32)
- Muting the conversation (p. 26)

### To cancel the dial lock

Repeat steps 2 through 6 on page 28.

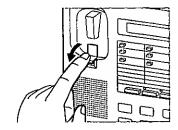
"→O" will disappear.



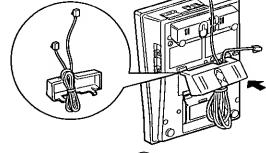
# **Wall Mounting**

This unit can be mounted on a wall phone plate.

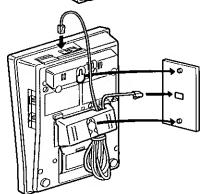
Pull down the handset hook until it locks, so the tab holds the handset.

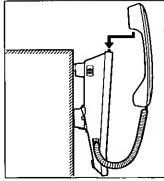


- 2 Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.
  - The word "UP" should face upward.



Connect the telephone line cord. Mount the unit, then slide down.





To temporarily set the handset down during a conversation, place it as shown here.

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# **Using an Optional Headset**



Plugging an optional headset into the unit provides a hands-free phone conversation.

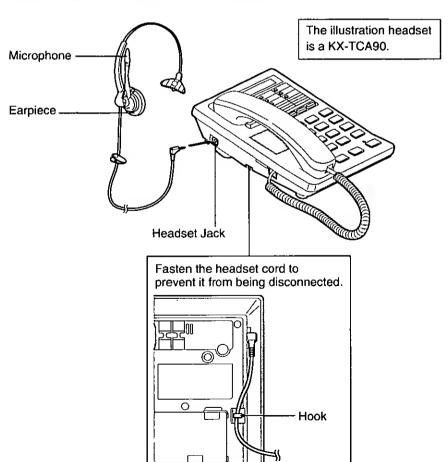
Please use only a Panasonic KX-TCA80 or KX-TCA90 headset.

To order, call the accessories telephone number on page 2.

When the optional headset is connected to the unit, be sure to use the headset to talk with the caller. If you want to have a normal phone conversation, disconnect the headset before making or answering a call.

## **Connecting an Optional Headset to the Unit**

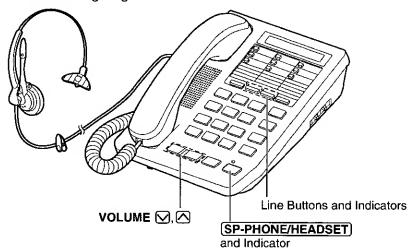
Connect an optional headset to the headset jack as shown below.





### Making/Answering Calls

- Press a line button to select the telephone line.
- Press (SP-PHONE/HEADSET) to make or answer a call.
  - The line indicator lights red and the SP-PHONE/HEADSET indicator lights.
  - If you misdial when making a call, press (SP-PHONE/HEADSET) twice and dial again.
- To hang up, press (SP-PHONE/HEADSET).
  - The indicator lights go out.



### To adjust the headset receiver volume (5 levels):

While using the headset, press **VOLUME** \( \sqrt{o} \) or \( \sqrt{o} \).

- After hanging up, the volume will return to the middle level.
- Be sure that the **CONF** (Conference) button is released.
- During a conversation using the optional headset, you cannot switch the call to the handset by lifting it off the cradle.
- If you disconnect the optional headset during a conversation, you can continue the conversation using the handset by lifting it up. However the call cannot be switched to the speakerphone.
- During a conversation using the speakerphone, you cannot switch the call to the optional headset by connecting the headset.

# **Before Requesting Help**



Problem	Remedy
The unit does not work.	• Check the settings (p. 7–12).
You cannot dial.	<ul> <li>Check whether the dialing mode selection is correct or not (p. 11).</li> <li>Dial lock mode is set. To cancel the mode, see page 29.</li> </ul>
The unit does not ring.	The RINGER selector(s) is/are set to OFF. Set to HIGH or LOW (p. 12).
The line indicators do not work properly.	<ul> <li>Check the settings (p. 7–12).</li> <li>The batteries have become weak.</li> <li>Replace them with new ones (p. 7).</li> </ul>
The other party suddenly cannot hear your voice during a conversation.	• MUTE may have been pressed during the conversation. If " 図 " is displayed, press MUTE.
You cannot store a phone number in memory.	<ul> <li>Confirm a line button is pressed and the handset is off the cradle.</li> <li>Do not enter a phone number more than 21 digits long, or the entered number will be erased.</li> </ul>
(REDIAL/PAUSE) does not function properly.	<ul> <li>The button has a double function as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 14). If another number has been dialed first, it will operate as a pause button (p. 27).</li> </ul>
You cannot have a conversation using the optional headset.	<ul> <li>Make sure the optional headset is connected properly (p. 31).</li> <li>Press SP-PHONE/HEADSET to make or answer a call.</li> <li>If you lift the handset and replace it back on the cradle, the call will be disconnected.</li> </ul>



# **➡** Before Requesting Help

Problem	Remedy
You cannot have a conversation using the handset or speakerphone.	When the optional headset is connected (p. 31), you must use the headset to talk with the caller. To have a normal phone conversation, disconnect the optional headset before making or answering a call.
If you cannot solve your problem	Call our customer call center at 1-800-211-PANA(7262).

# Constitution (Disease)

# Important Safety Instructions



When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

- Read and understand all instructions.
- 2. Follow all warnings and instructions marked on this unit.
- Unplug this unit from wall outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
- Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
- Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
- 7. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
- 8. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
- 9. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
- 10. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
- 11. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
  - A. When the power supply cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the unit.
  - C. If the unit has been exposed to rain or water.
  - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
  - E. If the unit has been dropped or physically damaged.
  - F. If the unit exhibits a distinct change in performance.

### **Important Safety Instructions**

- 12. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
- 13. Do not use this unit to report a gas leak, when in the vicinity of the leak.

# SAVE THESE INSTRUCTIONS

### **WARNING:**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

### **CAUTION:**

To reduce the risk of fire or injury to persons, read and follow these instructions.

- Use only the battery(ies) specified.
- Do not dispose of the battery(ies) in a fire. It (they) may explode.
   Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- 4. Exercise care in handling the battery(ies) in order not to short the battery(ies) to conductive materials such as rings, bracelets, and keys. The battery(ies) and/or conductor may overheat and cause burns.
- Do not recharge the battery(ies) provided with or identified for use with this product. The battery(ies) may leak corrosive electrolyte or explode.
- 6. Do not attempt to rejuvenate the battery(ies) provided with or identified for use with this product by heating. Sudden release of battery electrolyte may occur causing burns or irritation to the eyes or skin.
- Replace all batteries at the same time. Mixing fresh and discharged batteries could increase internal cell pressure and rupture the discharged batteries. (Applies to products employing more than one separately replaceable primary battery.)
- When installing batteries observe the proper polarity or direction.
   Incorrect installation can cause charging, and may result in leakage or explosion. (Applies to products employing more than one separately replaceable primary battery.)
- Remove the battery(ies) from this product if the product will not be used for a long period of time (several months or more). During this time the battery(ies) could leak in the product.
- Discard the "dead" battery(ies) as soon as possible. The "dead" battery(ies) may leak in the product.
- 11. Do not store this product, or the battery(ies) provided with or identified for use with this product, in high temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting. Batteries should be stabilized at room temperature prior to use after cold storage.

### FCC and Other Information

This unit must not be connected to a coin operated line. If you are on a party line, check with your local telephone company.

### Ringer Equivalence No. (REN):

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the problem with their equipment.
- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

When programming emergency numbers and/or making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
- 2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

### Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Environment do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- Routine care wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder.
- If there is any trouble disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

### For product service

- · Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-211-PANA(7262) for the location of an authorized servicenter.

### When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom
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- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985